

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: EPHESUS

Report Number: P624107

Luminaire Tested: **EPH-VN-08-E-930-U-44**

Issue Date: 11/2/2022

**Test Information**

Test Method: LM-79-2019  
Report Number: P624107  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 11/2/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: EPHESUS  
Catalog Number: EPH-VN-08-E-930-U-44  
Description: EPHESUS LUMAVISION FLOOD – Middle Tier Light Square Luminaire w/  
Nema 4 distribution lens  
Light Source: (128) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp:	N/A	NEMA Type:	4H x 4V
Luminaire Lumens:	45497.7 lumens	Max Intensity:	147119 candela
Efficiency:	N/A	Max Intensity Angle:	0°H x 0°V
Efficacy:	72.6 lumens/watt		
Luminous Opening:	Rectangular (W 2' x L: 1' x H: 0')		

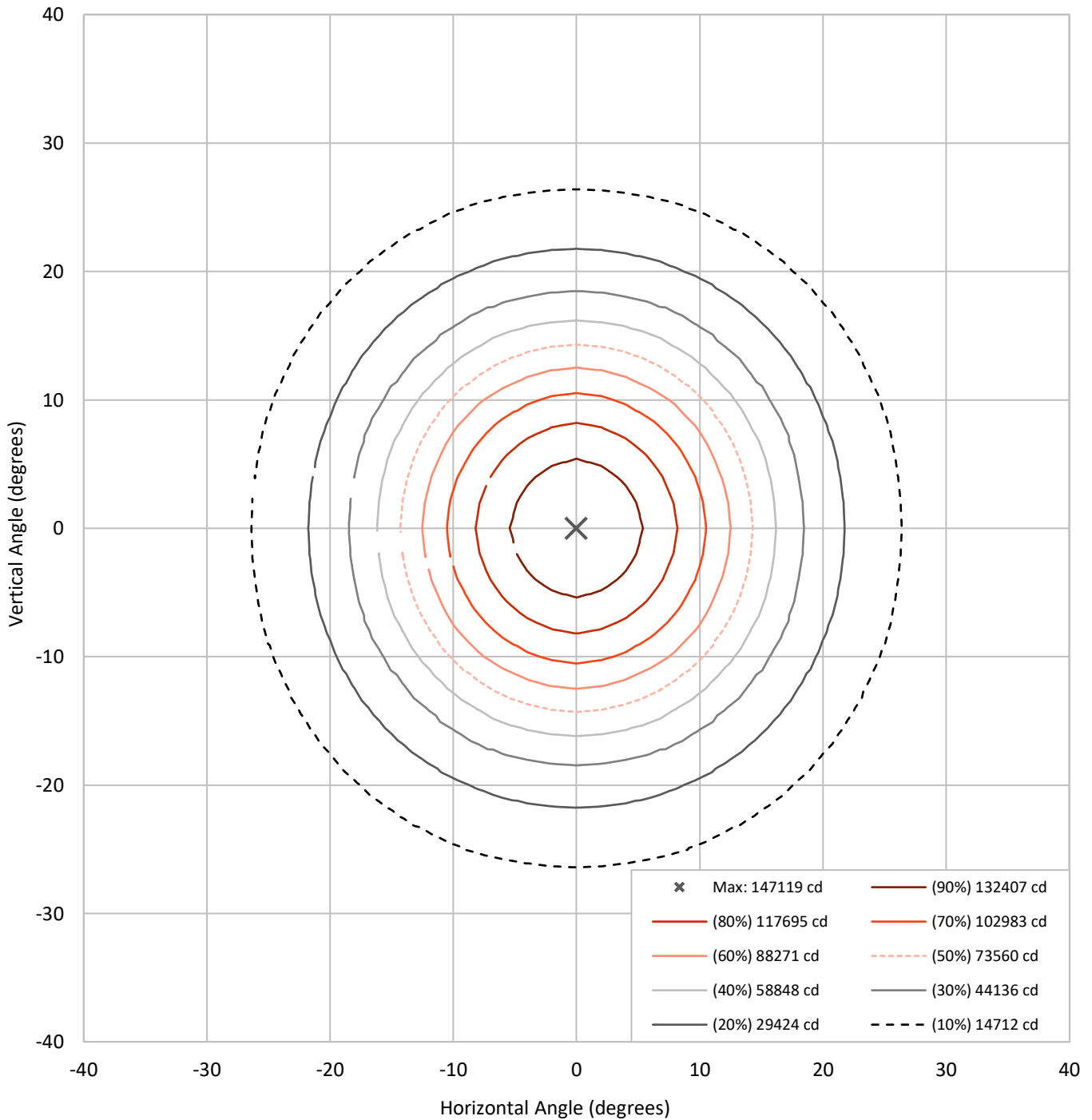
Beam Angle (50%):	28.6°H x 28.6°V	Field Angle (10%):	52.7°H x 52.7°V
Beam Lumens:	16416.4 lumens	Field Lumens:	27721.4 lumens
Beam Efficiency:	36.1%	Field Efficiency:	60.9%

Input Watts (W): 626.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Candela Plot





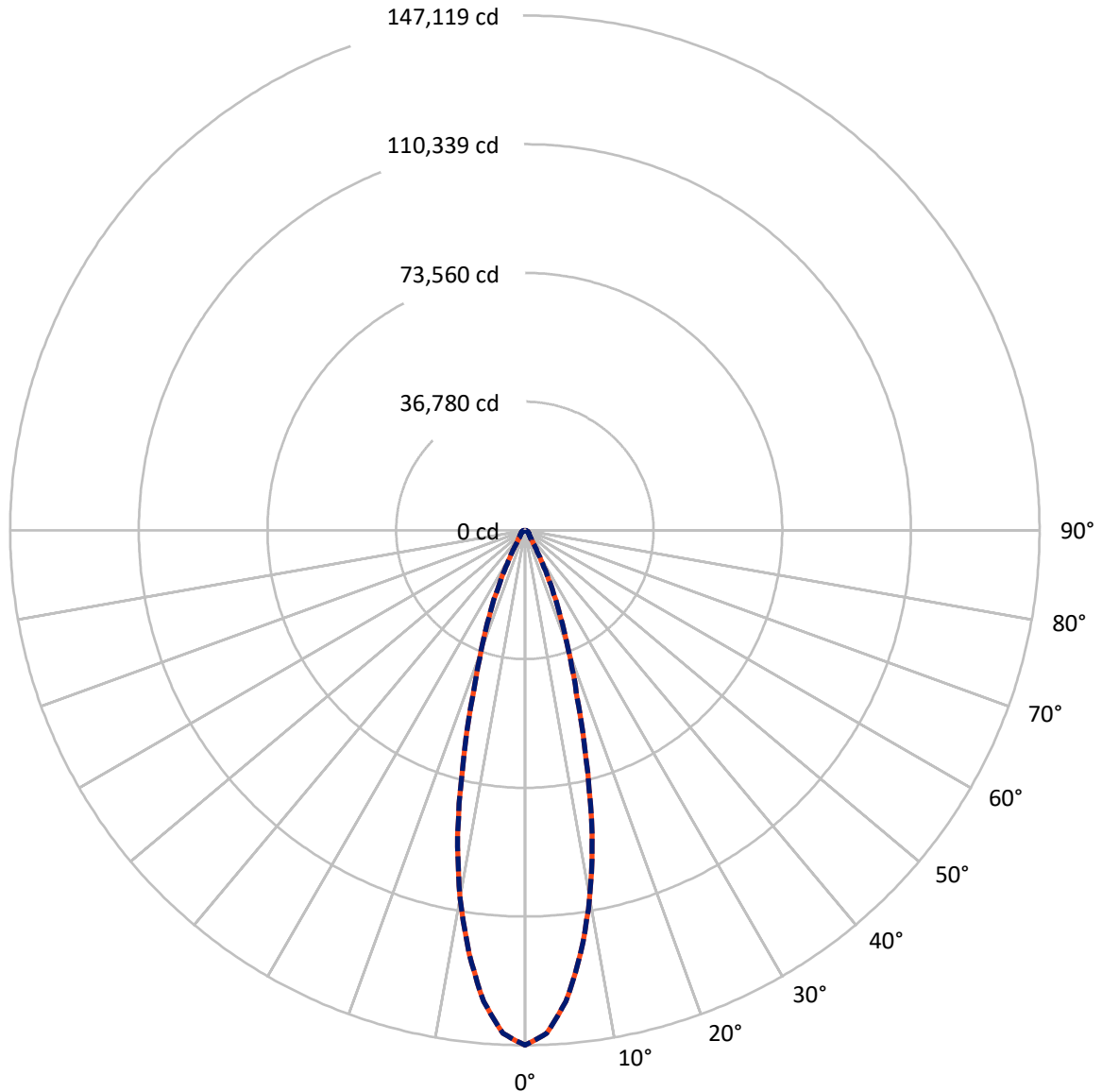
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### Lumen Table

90	1.1	7.7	19.6	31.3	36.1	31.3	19.6	7.7	1.1							
80	1.1	7.7	19.6	31.3	36.1	31.3	19.6	7.7	1.1							
70	3.5	3.7	7.6	12.4	17.5	22.0	25.4	27.2	27.2	25.4	22.0	17.5	12.4	7.6	3.7	3.5
60		5.6	11.5	18.5	25.5	31.7	36.4	39.0	39.0	36.4	31.7	25.5	18.5	11.5	5.6	
50	6.0	7.5	15.0	23.7	32.6	41.4	49.3	54.4	54.4	49.3	41.4	32.6	23.7	15.0	7.5	6.0
40		9.1	18.0	28.1	40.4	57.5	84.0	111.8	111.8	84.0	57.5	40.4	28.1	18.0	9.1	
30	8.0	10.4	20.2	32.4	52.1	109.2	299.3	542.2	542.2	299.3	109.2	52.1	32.4	20.2	10.4	8.0
20		11.2	21.7	36.3	71.7	282.6	971.7	1874.4	1874.4	971.7	282.6	71.7	36.3	21.7	11.2	
10	8.7	11.7	22.6	38.8	92.9	497.8	1823.6	3595.3	3595.3	1823.6	497.8	92.9	38.8	22.6	11.7	8.7
0		11.7	22.6	38.8	92.9	497.8	1823.6	3595.3	3595.3	1823.6	497.8	92.9	38.8	22.6	11.7	
-10	8.0	11.2	21.7	36.3	71.7	282.6	971.7	1874.4	1874.4	971.7	282.6	71.7	36.3	21.7	11.2	8.0
-20		10.4	20.2	32.4	52.1	109.2	299.3	542.2	542.2	299.3	109.2	52.1	32.4	20.2	10.4	
-30	6.0	9.1	18.0	28.1	40.4	57.5	84.0	111.8	111.8	84.0	57.5	40.4	28.1	18.0	9.1	6.0
-40		7.5	15.0	23.7	32.6	41.4	49.3	54.4	54.4	49.3	41.4	32.6	23.7	15.0	7.5	
-50	3.5	5.6	11.5	18.5	25.5	31.7	36.4	39.0	39.0	36.4	31.7	25.5	18.5	11.5	5.6	3.5
-60		3.7	7.6	12.4	17.5	22.0	25.4	27.2	27.2	25.4	22.0	17.5	12.4	7.6	3.7	
-70	1.1	7.7	19.6	31.3	36.1	31.3	19.6	7.7	1.1							
-80		1.1	7.7	19.6	31.3	36.1	31.3	19.6	7.7	1.1						
-90	1.1	7.7	19.6	31.3	36.1	31.3	19.6	7.7	1.1							

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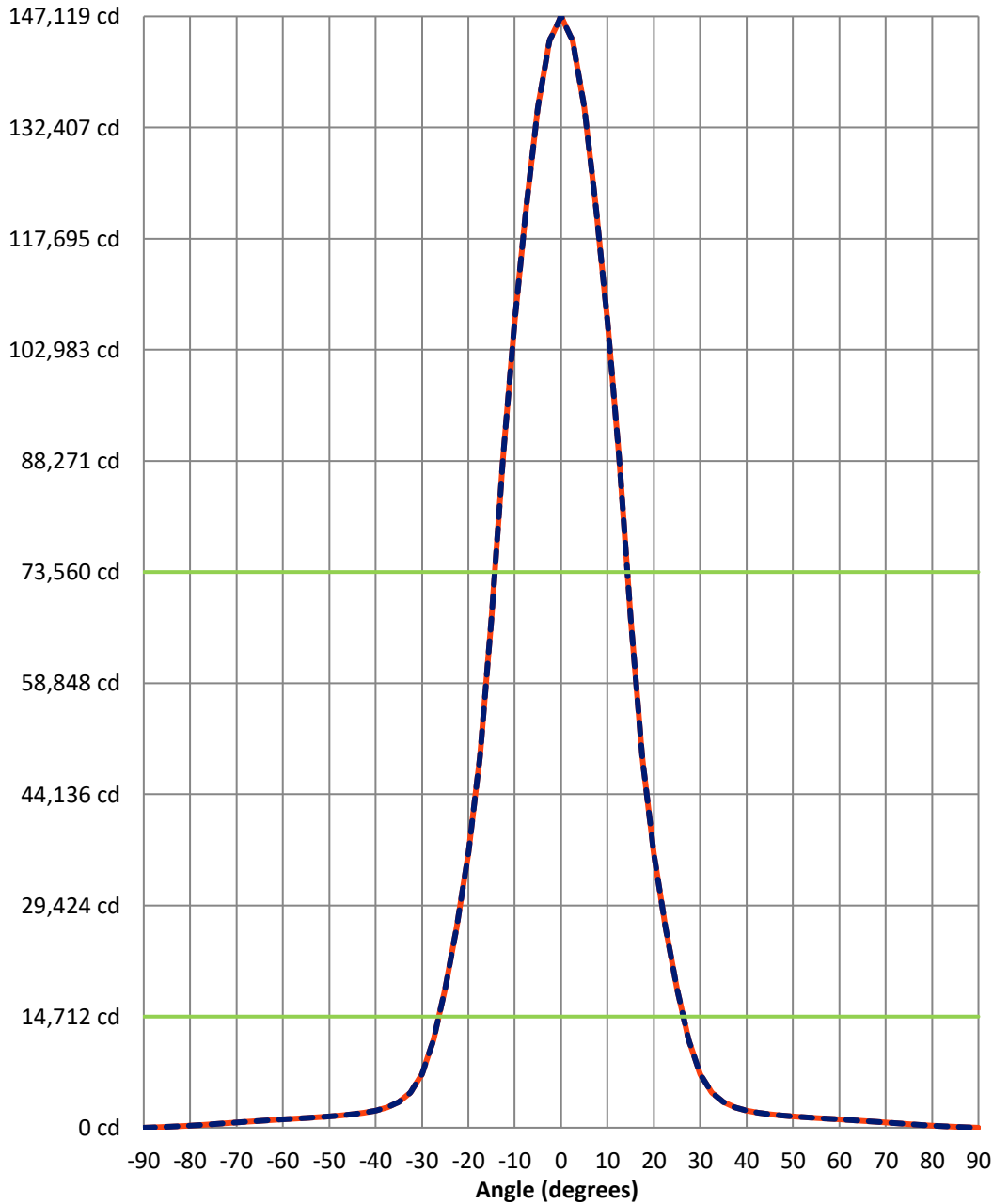
### Luminous Intensity Polar Plot



— Vertical Distribution Through 0-Deg      - - - Horizontal Distribution Through 0-Deg

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### Luminous Intensity Plot



**Beam:**  
 H Angle: 28.6°  
 V Angle: 28.6°  
 Lumens: 16416.4  
 Efficiency: 36.1%

**Field:**  
 H Angle: 52.7°  
 V Angle: 52.7°  
 Lumens: 27721.4  
 Efficiency: 60.9%

**Spill:**  
 Lumens: 17776.3  
 Efficiency: 39.1%

— Vertical Distribution through 0-Deg  
 - - - Horizontal Distribution through 0-Deg



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FIELD  
 BEAM

**CANDELA DISTRIBUTION:**

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	25°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	52.2	52.2	52.2	52.2	52.2	52.2	52.2	47.4	47.4	47.4	47.4
85°	118.6	118.6	118.6	118.6	118.6	113.8	113.8	113.8	109.1	109.1	104.4
82.5°	189.7	189.7	189.7	189.7	185.0	185.0	180.3	180.3	175.5	175.5	170.8
80°	270.4	270.4	270.4	270.4	265.6	260.9	260.9	256.2	251.4	246.7	241.9
77.5°	365.3	365.3	365.3	360.5	355.8	355.8	351.0	341.5	336.8	327.3	322.6
75°	469.6	469.6	469.6	464.9	460.1	455.4	445.9	441.2	431.7	422.2	408.0
72.5°	583.5	583.5	583.5	578.7	569.2	564.5	555.0	545.5	536.0	521.8	507.6
70°	692.6	692.6	692.6	683.1	678.3	668.9	659.4	649.9	635.6	621.4	607.2
67.5°	801.7	801.7	801.7	792.2	787.4	778.0	768.5	754.2	740.0	721.0	706.8
65°	901.3	901.3	896.5	891.8	887.1	877.6	863.3	853.9	839.6	820.6	801.7
62.5°	1005.7	1005.7	1000.9	996.2	986.7	977.2	963.0	948.7	929.8	910.8	891.8
60°	1110.0	1110.0	1105.3	1100.5	1091.0	1076.8	1062.6	1048.3	1029.4	1005.7	981.9
57.5°	1195.4	1195.4	1190.7	1185.9	1176.4	1166.9	1152.7	1138.5	1119.5	1100.5	1072.1
55°	1285.5	1285.5	1280.8	1271.3	1261.8	1252.3	1238.1	1219.1	1200.1	1176.4	1157.4
52.5°	1389.9	1389.9	1385.1	1375.7	1361.4	1347.2	1328.2	1304.5	1280.8	1257.1	1228.6
50°	1494.2	1494.2	1484.8	1475.3	1465.8	1446.8	1427.8	1404.1	1375.7	1347.2	1314.0
47.5°	1622.3	1622.3	1612.8	1598.6	1579.6	1560.7	1532.2	1499.0	1470.5	1437.3	1399.4
45°	1778.9	1778.9	1764.6	1750.4	1726.7	1693.5	1660.3	1622.3	1579.6	1536.9	1489.5
42.5°	1982.8	1982.8	1963.9	1940.1	1906.9	1864.2	1812.1	1759.9	1707.7	1650.8	1593.9
40°	2258.0	2258.0	2229.5	2196.3	2144.1	2082.5	2006.6	1935.4	1864.2	1783.6	1712.5
37.5°	2689.6	2689.6	2642.2	2580.5	2495.2	2390.8	2262.7	2167.8	2058.7	1954.4	1859.5
35°	3396.4	3396.4	3311.1	3202.0	3050.2	2860.4	2656.4	2495.2	2314.9	2167.8	2030.3
32.5°	4653.5	4653.5	4482.7	4269.3	3979.9	3609.9	3268.4	2983.7	2689.6	2461.9	2243.7
30°	7087.0	7087.0	6721.7	6271.1	5649.7	4871.7	4288.2	3742.7	3244.6	2869.9	2552.1
27.5°	11655.1	11465.4	10896.1	9961.6	8680.8	7087.0	6071.9	4919.1	4131.7	3415.4	2974.3
25°	18400.6	18087.5	17148.2	15616.0	13528.8	11161.8	9088.8	6902.0	5521.6	4330.9	3510.3
22.5°	26597.5	26165.9	24889.8	22807.4	19984.9	16835.2	13481.4	10336.4	7537.6	5725.6	4330.9
20°	36303.0	35724.3	34011.8	31232.1	27494.1	23485.7	19007.7	14795.4	10758.6	7537.6	5521.6
17.5°	49115.6	48233.3	45638.5	41464.1	36303.0	30900.0	25302.5	19866.3	14795.4	10336.4	6902.0
15°	67535.1	66045.6	61690.9	54774.7	46739.0	39206.1	32067.0	25302.5	19007.7	13481.4	9088.8
12.5°	88829.3	86756.3	80755.6	71396.4	60476.6	48565.3	39206.1	30900.0	23485.7	16835.2	11161.8
10°	106769.7	104582.9	98382.9	88995.3	75148.6	60476.6	46739.0	36303.0	27494.1	19984.9	13528.8
7.5°	121925.6	119477.9	112794.1	102524.1	88995.3	71396.4	54774.7	41464.1	31232.1	22807.4	15616.0
5°	135089.2	131986.8	124207.3	112794.1	98382.9	80755.6	61690.9	45638.5	34011.8	24889.8	17148.2
2.5°	143883.9	140240.8	131986.8	119477.9	104582.9	86756.3	66045.6	48233.3	35724.3	26165.9	18087.5
0°	147119.0	143883.9	135089.2	121925.6	106769.7	88829.3	67535.1	49115.6	36303.0	26597.5	18400.6



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**CANDELA DISTRIBUTION (continued):**

	27.5°	30°	32.5°	35°	37.5°	40°	42.5°	45°	47.5°	50°	52.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	47.4	47.4	42.7	42.7	42.7	37.9	37.9	37.9	33.2	33.2	33.2
85°	104.4	99.6	99.6	94.9	90.1	85.4	85.4	80.6	75.9	71.2	66.4
82.5°	166.0	161.3	156.5	151.8	147.1	137.6	132.8	128.1	118.6	113.8	109.1
80°	232.4	227.7	218.2	213.5	204.0	194.5	185.0	175.5	166.0	156.5	147.1
77.5°	313.1	298.8	289.4	279.9	265.6	256.2	241.9	232.4	218.2	204.0	189.7
75°	398.5	384.2	370.0	355.8	341.5	322.6	308.3	289.4	275.1	256.2	241.9
72.5°	493.3	474.4	455.4	436.4	417.4	398.5	379.5	355.8	336.8	313.1	289.4
70°	588.2	569.2	550.3	526.5	502.8	479.1	455.4	426.9	403.2	374.7	346.3
67.5°	687.8	664.1	640.4	616.7	593.0	564.5	531.3	502.8	469.6	436.4	408.0
65°	782.7	759.0	730.5	702.1	673.6	645.1	611.9	578.7	540.8	502.8	469.6
62.5°	868.1	844.4	820.6	787.4	759.0	725.8	692.6	649.9	611.9	574.0	531.3
60°	958.2	929.8	901.3	868.1	834.9	801.7	763.7	721.0	683.1	635.6	593.0
57.5°	1043.6	1015.1	981.9	948.7	910.8	872.8	834.9	792.2	749.5	702.1	654.6
55°	1129.0	1100.5	1067.3	1029.4	986.7	944.0	901.3	858.6	815.9	763.7	711.5
52.5°	1200.1	1171.7	1138.5	1110.0	1062.6	1019.9	972.4	920.3	872.8	820.6	768.5
50°	1276.0	1242.8	1204.9	1171.7	1133.7	1091.0	1038.9	986.7	929.8	877.6	820.6
47.5°	1361.4	1318.7	1276.0	1233.3	1195.4	1148.0	1105.3	1048.3	991.4	929.8	872.8
45°	1446.8	1399.4	1351.9	1299.8	1252.3	1204.9	1157.4	1110.0	1048.3	986.7	920.3
42.5°	1536.9	1480.0	1427.8	1375.7	1318.7	1261.8	1209.6	1157.4	1105.3	1038.9	972.4
40°	1641.3	1574.9	1508.5	1446.8	1389.9	1323.5	1261.8	1204.9	1148.0	1091.0	1019.9
37.5°	1759.9	1679.2	1598.6	1522.7	1451.6	1389.9	1318.7	1252.3	1195.4	1133.7	1062.6
35°	1911.7	1793.1	1698.2	1603.3	1522.7	1446.8	1375.7	1299.8	1233.3	1171.7	1110.0
32.5°	2082.5	1935.4	1807.3	1698.2	1598.6	1508.5	1427.8	1351.9	1276.0	1204.9	1138.5
30°	2291.2	2101.4	1935.4	1793.1	1679.2	1574.9	1480.0	1399.4	1318.7	1242.8	1171.7
27.5°	2585.3	2291.2	2082.5	1911.7	1759.9	1641.3	1536.9	1446.8	1361.4	1276.0	1200.1
25°	2974.3	2552.1	2243.7	2030.3	1859.5	1712.5	1593.9	1489.5	1399.4	1314.0	1228.6
22.5°	3415.4	2869.9	2461.9	2167.8	1954.4	1783.6	1650.8	1536.9	1437.3	1347.2	1257.1
20°	4131.7	3244.6	2689.6	2314.9	2058.7	1864.2	1707.7	1579.6	1470.5	1375.7	1280.8
17.5°	4919.1	3742.7	2983.7	2495.2	2167.8	1935.4	1759.9	1622.3	1499.0	1404.1	1304.5
15°	6071.9	4288.2	3268.4	2656.4	2262.7	2006.6	1812.1	1660.3	1532.2	1427.8	1328.2
12.5°	7087.0	4871.7	3609.9	2860.4	2390.8	2082.5	1864.2	1693.5	1560.7	1446.8	1347.2
10°	8680.8	5649.7	3979.9	3050.2	2495.2	2144.1	1906.9	1726.7	1579.6	1465.8	1361.4
7.5°	9961.6	6271.1	4269.3	3202.0	2580.5	2196.3	1940.1	1750.4	1598.6	1475.3	1375.7
5°	10896.1	6721.7	4482.7	3311.1	2642.2	2229.5	1963.9	1764.6	1612.8	1484.8	1385.1
2.5°	11465.4	7087.0	4653.5	3396.4	2689.6	2258.0	1982.8	1778.9	1622.3	1494.2	1389.9
0°	11655.1	7087.0	4653.5	3396.4	2689.6	2258.0	1982.8	1778.9	1622.3	1494.2	1389.9





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**CANDELA DISTRIBUTION (continued):**

	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77.5°	80°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.5	28.5	23.7	23.7	23.7	19.0	19.0	14.2	14.2	9.5	9.5
85°	61.7	56.9	52.2	47.4	42.7	37.9	37.9	33.2	28.5	23.7	19.0
82.5°	99.6	94.9	85.4	75.9	71.2	61.7	52.2	47.4	42.7	33.2	28.5
80°	137.6	128.1	118.6	109.1	99.6	85.4	75.9	66.4	52.2	42.7	37.9
77.5°	180.3	166.0	151.8	137.6	123.3	113.8	99.6	85.4	71.2	56.9	42.7
75°	223.0	204.0	189.7	170.8	156.5	137.6	118.6	104.4	90.1	71.2	52.2
72.5°	270.4	246.7	227.7	204.0	185.0	166.0	142.3	123.3	104.4	85.4	66.4
70°	322.6	294.1	265.6	241.9	218.2	189.7	166.0	142.3	118.6	99.6	75.9
67.5°	374.7	341.5	308.3	275.1	246.7	218.2	189.7	166.0	137.6	113.8	85.4
65°	426.9	389.0	355.8	317.8	279.9	246.7	218.2	185.0	156.5	123.3	99.6
62.5°	483.9	441.2	398.5	355.8	317.8	275.1	241.9	204.0	170.8	137.6	109.1
60°	545.5	498.1	445.9	398.5	355.8	308.3	265.6	227.7	189.7	151.8	118.6
57.5°	602.4	550.3	498.1	441.2	389.0	341.5	294.1	246.7	204.0	166.0	128.1
55°	659.4	602.4	545.5	483.9	426.9	374.7	322.6	270.4	223.0	180.3	137.6
52.5°	711.5	654.6	593.0	531.3	469.6	408.0	346.3	289.4	241.9	189.7	147.1
50°	763.7	702.1	635.6	574.0	502.8	436.4	374.7	313.1	256.2	204.0	156.5
47.5°	815.9	749.5	683.1	611.9	540.8	469.6	403.2	336.8	275.1	218.2	166.0
45°	858.6	792.2	721.0	649.9	578.7	502.8	426.9	355.8	289.4	232.4	175.5
42.5°	901.3	834.9	763.7	692.6	611.9	531.3	455.4	379.5	308.3	241.9	185.0
40°	944.0	872.8	801.7	725.8	645.1	564.5	479.1	398.5	322.6	256.2	194.5
37.5°	986.7	910.8	834.9	759.0	673.6	593.0	502.8	417.4	341.5	265.6	204.0
35°	1029.4	948.7	868.1	787.4	702.1	616.7	526.5	436.4	355.8	279.9	213.5
32.5°	1067.3	981.9	901.3	820.6	730.5	640.4	550.3	455.4	370.0	289.4	218.2
30°	1100.5	1015.1	929.8	844.4	759.0	664.1	569.2	474.4	384.2	298.8	227.7
27.5°	1129.0	1043.6	958.2	868.1	782.7	687.8	588.2	493.3	398.5	313.1	232.4
25°	1157.4	1072.1	981.9	891.8	801.7	706.8	607.2	507.6	408.0	322.6	241.9
22.5°	1176.4	1100.5	1005.7	910.8	820.6	721.0	621.4	521.8	422.2	327.3	246.7
20°	1200.1	1119.5	1029.4	929.8	839.6	740.0	635.6	536.0	431.7	336.8	251.4
17.5°	1219.1	1138.5	1048.3	948.7	853.9	754.2	649.9	545.5	441.2	341.5	256.2
15°	1238.1	1152.7	1062.6	963.0	863.3	768.5	659.4	555.0	445.9	351.0	260.9
12.5°	1252.3	1166.9	1076.8	977.2	877.6	778.0	668.9	564.5	455.4	355.8	260.9
10°	1261.8	1176.4	1091.0	986.7	887.1	787.4	678.3	569.2	460.1	355.8	265.6
7.5°	1271.3	1185.9	1100.5	996.2	891.8	792.2	683.1	578.7	464.9	360.5	270.4
5°	1280.8	1190.7	1105.3	1000.9	896.5	801.7	692.6	583.5	469.6	365.3	270.4
2.5°	1285.5	1195.4	1110.0	1005.7	901.3	801.7	692.6	583.5	469.6	365.3	270.4
0°	1285.5	1195.4	1110.0	1005.7	901.3	801.7	692.6	583.5	469.6	365.3	270.4



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**CANDELA DISTRIBUTION (continued):**

	82.5°	85°	87.5°	90°
90°	0.0	0.0	0.0	0.0
87.5°	4.7	4.7	0.0	0.0
85°	14.2	9.5	4.7	0.0
82.5°	19.0	14.2	4.7	0.0
80°	28.5	19.0	9.5	0.0
77.5°	33.2	23.7	9.5	0.0
75°	42.7	28.5	14.2	0.0
72.5°	47.4	33.2	14.2	0.0
70°	52.2	37.9	19.0	0.0
67.5°	61.7	37.9	19.0	0.0
65°	71.2	42.7	23.7	0.0
62.5°	75.9	47.4	23.7	0.0
60°	85.4	52.2	23.7	0.0
57.5°	94.9	56.9	28.5	0.0
55°	99.6	61.7	28.5	0.0
52.5°	109.1	66.4	33.2	0.0
50°	113.8	71.2	33.2	0.0
47.5°	118.6	75.9	33.2	0.0
45°	128.1	80.6	37.9	0.0
42.5°	132.8	85.4	37.9	0.0
40°	137.6	85.4	37.9	0.0
37.5°	147.1	90.1	42.7	0.0
35°	151.8	94.9	42.7	0.0
32.5°	156.5	99.6	42.7	0.0
30°	161.3	99.6	47.4	0.0
27.5°	166.0	104.4	47.4	0.0
25°	170.8	104.4	47.4	0.0
22.5°	175.5	109.1	47.4	0.0
20°	175.5	109.1	47.4	0.0
17.5°	180.3	113.8	47.4	0.0
15°	180.3	113.8	52.2	0.0
12.5°	185.0	113.8	52.2	0.0
10°	185.0	118.6	52.2	0.0
7.5°	189.7	118.6	52.2	0.0
5°	189.7	118.6	52.2	0.0
2.5°	189.7	118.6	52.2	0.0
0°	189.7	118.6	52.2	0.0

(END OF REPORT)